

**From:** [R4LIMS](#)  
**To:** [Lattimore, Leigh](#)  
**Cc:** [Turner, Nardina](#); [Lkrebs@otie.com](mailto:Lkrebs@otie.com); [Saskowski, Ronald](#); [gkowsalski@otie.com](mailto:gkowsalski@otie.com); [Wellborn, Floyd](#); [Aker, Sandra](#)  
**Subject:** R4 LIMS Results: Project 20-0150, E200402 TMTL 02 24 20 1624  
**Date:** Monday, February 24, 2020 10:45:17 PM  
**Attachments:** [E200402 TMTL FINAL 02 24 20 1624.PDF](#)  
[E200402 TMTL FINAL 02 24 20 1624 - 20-0150 - WESTSIDE LEAD 02-24-2020.GAN000407160.Dat](#)

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On Monday, February 24, 2020, results for the following were released by the Region 4 Laboratory:

**Analyses:**

Total Metals (TMTL)

**Project Number:** 20-0150

**Project Name:** Westside Lead

**City:** Atlanta    **County:** Fulton    **State:** GA

**These results were reported by:**

**Floyd Wellborn** ( E-mail: [Wellborn.Floyd@epa.gov](mailto:Wellborn.Floyd@epa.gov) )

If you have questions concerning the laboratory results, please feel free to contact the laboratory personnel shown above as having reported the data. We also encourage you to provide feedback to the Region 4 laboratory by filling out our online (*EPA internal network only*) [Customer Survey Form](#).

**These results are for the following Sample Type(s):**

Soil (Surface Soil)

Water (Equipment Rinse Blank)

**PDF DATA RESULTS REPORT FILE ATTACHMENT:**

An Adobe Acrobat PDF file is attached to this message that contains final results for the analyses as indicated in the data report.

**DATA EXPORT FILE ATTACHMENT:**

If attached, data export files will be tab delimited ASCII text files contained in a file that has been formatted using the ZIP archiving format (.Dat extension). Please consult your local computer support personnel if you have problems extracting these files. If you have questions about the data file formats and the information contained in these files, or if you would like to request export files for previously reported data, use the contact information shown below to contact the appropriate person with your concerns. To generate export files for previously reported data we'll need the name of the PDF report file that was attached to the original transmittal message.

For questions concerning this message and attachments, or any other LIMS or data reporting issues, please call the LSASD PC Hotline at 706-355-8825 or send an email to [r4lims@epa.gov](mailto:r4lims@epa.gov).

**SAMPLE DISPOSAL POLICY:**

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at [R4SampleCustody@epa.gov](mailto:R4SampleCustody@epa.gov).

**\*\*CONFIDENTIALITY NOTICE\*\***

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

February 24, 2020

**MEMORANDUM**

**SUBJECT:** FINAL Analytical Report  
Project: 20-0150, Westside Lead

**FROM:** Floyd Wellborn  
LSB Inorganic Chemistry Section Chief

**THRU:** Sandra Aker, Chief  
Laboratory Services Branch

**TO:** Leigh Lattimore

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at [www.epa.gov/region4/sesd/asbsop](http://www.epa.gov/region4/sesd/asbsop). Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

**Total Metals (TMTL)**

Total Metals	EPA 200.8 (Soil)	ISO
Total Metals	EPA 200.8 (Water)	ISO
Total Metals	EPA 6010 (Soil)	ISO
Total Metals	EPA 6010 (Water)	ISO



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cc: Nardina Turner



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D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

**SAMPLES INCLUDED IN THIS REPORT**

**Project: 20-0150, Westside Lead**

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
ESL-012220	E200402-01	Equipment Rinse Blank	1/22/20 11:30	1/23/20 10:20
WSL-1350A RS	E200402-02	Surface Soil	12/20/19 10:50	1/23/20 10:20
WSL-1350X	E200402-03	Surface Soil	1/16/20 13:30	1/23/20 10:20
WSL-1355A RS	E200402-04	Surface Soil	12/20/19 10:10	1/23/20 10:20
WSL-1355X	E200402-05	Surface Soil	1/16/20 15:40	1/23/20 10:20
WSL-1356X	E200402-06	Surface Soil	1/16/20 10:50	1/23/20 10:20





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D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

### DATA QUALIFIER DEFINITIONS

U The analyte was not detected at or above the reporting limit.

### ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System ([www.epa.gov/srs](http://www.epa.gov/srs)), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

#### ACCREDITATIONS:

ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at:  
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

NR The EPA Region 4 Laboratory has not requested accreditation for this test.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 20-0150, Westside Lead

Sample ID: ESL-012220

Lab ID: E200402-01

Station ID:

Matrix: Equipment Rinse Blank

Date Collected: 1/22/20 11:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	0.50	U	ug/L	0.50	1/31/20 11:25	2/13/20 11:14	EPA 200.8
7439-92-1	Lead	20	U	ug/L	20	1/31/20 11:25	2/04/20 15:59	EPA 6010



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D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

## Total Metals

**Project: 20-0150, Westside Lead**

**Sample ID:** WSL-1350A RS

**Lab ID:** E200402-02

**Station ID:** WSL1350A

**Matrix:** Surface Soil

**Date Collected:** 12/20/19 10:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	1.9		mg/kg dry	0.20	1/30/20 14:14	2/13/20 11:52	EPA 200.8
7439-92-1	Lead	280		mg/kg dry	10	1/30/20 14:12	2/04/20 16:31	EPA 6010





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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 20-0150, Westside Lead

Sample ID: WSL-1350X

Lab ID: E200402-03

Station ID: WSL1350X

Matrix: Surface Soil

Date Collected: 1/16/20 13:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	4.2		mg/kg dry	0.20	1/30/20 14:14	2/13/20 11:57	EPA 200.8
7439-92-1	Lead	450		mg/kg dry	9.9	1/30/20 14:12	2/04/20 16:34	EPA 6010



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D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

## Total Metals

**Project: 20-0150, Westside Lead**

**Sample ID:** WSL-1355A RS

**Lab ID:** E200402-04

**Station ID:** WSL1355A

**Matrix:** Surface Soil

**Date Collected:** 12/20/19 10:10

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	1.9		mg/kg dry	0.20	1/30/20 14:14	2/13/20 12:01	EPA 200.8
7439-92-1	Lead	390		mg/kg dry	10	1/30/20 14:12	2/04/20 16:38	EPA 6010



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D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 20-0150, Westside Lead

Sample ID: WSL-1355X

Lab ID: E200402-05

Station ID: WSL1355X

Matrix: Surface Soil

Date Collected: 1/16/20 15:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.6		mg/kg dry	0.20	1/30/20 14:14	2/13/20 12:05	EPA 200.8
7439-92-1	Lead	310		mg/kg dry	9.8	1/30/20 14:12	2/04/20 16:42	EPA 6010



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D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

## Total Metals

Project: 20-0150, Westside Lead

Sample ID: WSL-1356X

Lab ID: E200402-06

Station ID: WSL1356X

Matrix: Surface Soil

Date Collected: 1/16/20 10:50

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-38-2	Arsenic	2.8		mg/kg dry	0.20	1/30/20 14:14	2/13/20 12:09	EPA 200.8
7439-92-1	Lead	290		mg/kg dry	10	1/30/20 14:12	2/04/20 16:49	EPA 6010



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2001040 - M 200.2 Metals Soil**

Blank (2001040-BLK1)

Prepared: 01/30/20 Analyzed: 02/04/20

**EPA 6010**

Lead	U	2.0	mg/kg dry							U
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Blank (2001040-BLK2)

Prepared: 01/30/20 Analyzed: 02/04/20

**EPA 6010**

Lead	U	2.0	mg/kg dry							U
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LCS (2001040-BS1)

Prepared: 01/30/20 Analyzed: 02/04/20

**EPA 6010**

Lead	94.056	2.0	mg/kg dry	100.00		94.1	85-115			
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Matrix Spike (2001040-MS1)

Source: E200402-06

Prepared: 01/30/20 Analyzed: 02/04/20

**EPA 6010**

Lead	378.73	10	mg/kg dry	99.960	289.34	89.4	75-125			
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Matrix Spike Dup (2001040-MSD1)

Source: E200402-06

Prepared: 01/30/20 Analyzed: 02/04/20

**EPA 6010**

Lead	381.14	10	mg/kg dry	99.940	289.34	91.9	75-125	0.634	20	
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MRL Verification (2001040-PS1)

Prepared: 01/30/20 Analyzed: 02/04/20

**EPA 6010**

Lead	2.0264	2.0	mg/kg dry	2.0000		101	70-130			MRL-3
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**Batch 2001041 - M 200.2 Metals Soil**

Blank (2001041-BLK1)

Prepared: 01/30/20 Analyzed: 02/13/20

**EPA 200.8**

Arsenic	U	0.10	mg/kg dry							U
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Blank (2001041-BLK2)

Prepared: 01/30/20 Analyzed: 02/13/20

**EPA 200.8**

Arsenic	U	0.10	mg/kg dry							U
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LCS (2001041-BS1)

Prepared: 01/30/20 Analyzed: 02/13/20

**EPA 200.8**

Arsenic	49.653	1.2	mg/kg dry	50.000		99.3	85-115			
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Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2001041 - M 200.2 Metals Soil**

**Matrix Spike (2001041-MS1)**

Source: E200402-06

Prepared: 01/30/20 Analyzed: 02/13/20

**EPA 200.8**

Arsenic	40.952	1.2	mg/kg dry	49.980	2.8169	76.3	70-130			
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**Matrix Spike Dup (2001041-MSD1)**

Source: E200402-06

Prepared: 01/30/20 Analyzed: 02/13/20

**EPA 200.8**

Arsenic	40.051	1.2	mg/kg dry	49.970	2.8169	74.5	70-130	2.22	20	
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**MRL Verification (2001041-PS1)**

Prepared: 01/30/20 Analyzed: 02/13/20

**EPA 200.8**

Arsenic	0.092680	0.10	mg/kg dry	0.10000		92.7	65-135			MRL-3, U
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**Batch 2001053 - M 200.2 Metals Water**

**Blank (2001053-BLK1)**

Prepared: 01/31/20 Analyzed: 02/04/20

**EPA 6010**

Lead	U	20	ug/L							U
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**LCS (2001053-BS1)**

Prepared: 01/31/20 Analyzed: 02/04/20

**EPA 6010**

Lead	184.60	20	ug/L	200.00		92.3	85-115			
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**Matrix Spike (2001053-MS1)**

Source: E200402-01

Prepared: 01/31/20 Analyzed: 02/04/20

**EPA 6010**

Lead	183.59	20	ug/L	200.00	U	91.8	75-125			
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**Matrix Spike Dup (2001053-MSD1)**

Source: E200402-01

Prepared: 01/31/20 Analyzed: 02/04/20

**EPA 6010**

Lead	184.52	20	ug/L	200.00	U	92.3	75-125	0.508	20	
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**MRL Verification (2001053-PS1)**

Prepared: 01/31/20 Analyzed: 02/04/20

**EPA 6010**

Lead	19.984	20	ug/L	20.000		99.9	70-130			MRL-2, U
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**Batch 2001054 - M 200.2 Metals Water**

**Blank (2001054-BLK1)**

Prepared: 01/31/20 Analyzed: 02/13/20





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D.A.R.T. Id: 20-0150

Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

**Total Metals (TMTL) - Quality Control**

**US-EPA, Region 4, LSASD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2001054 - M 200.2 Metals Water										
Blank (2001054-BLK1)				Prepared: 01/31/20 Analyzed: 02/13/20						
EPA 200.8										
Arsenic	U	0.50	ug/L							U
LCS (2001054-BS1)				Prepared: 01/31/20 Analyzed: 02/13/20						
EPA 200.8										
Arsenic	193.64	5.0	ug/L	200.00		96.8	85-115			
Matrix Spike (2001054-MS1)		Source: E200402-01		Prepared: 01/31/20 Analyzed: 02/13/20						
EPA 200.8										
Arsenic	189.53	5.0	ug/L	200.00	U	94.8	70-130			
Matrix Spike Dup (2001054-MSD1)		Source: E200402-01		Prepared: 01/31/20 Analyzed: 02/13/20						
EPA 200.8										
Arsenic	192.06	5.0	ug/L	200.00	U	96.0	70-130	1.33	20	
MRL Verification (2001054-PS1)				Prepared: 01/31/20 Analyzed: 02/13/20						
EPA 200.8										
Arsenic	0.91494	0.50	ug/L	1.0000		91.5	65-135			MRL-2



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Project: 20-0150, Westside Lead - Reported by Floyd Wellborn

**Notes and Definitions for QC Samples**

U	The analyte was not detected at or above the reporting limit.
MRL-2	MRL verification for Non-Potable Water matrix
MRL-3	MRL verification for Soil matrix